

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: MORRILL POND #1	Lake Area (ha):	2.83
Town: CANTERBURY	Maximum depth (m):	---
County: Merrimack	Mean depth (m):	---
River Basin: Merrimack	Volume (m <sup>3</sup> ):	---
Latitude: 43°21'25" N	Relative depth:	---
Longitude: 71°33'48" W	Shore configuration:	---
Elevation (ft): 825	Areal water load (m/yr):	---
Shore length (m): 1800	Flushing rate (yr <sup>-1</sup> ):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	artificial

BIOLOGICAL:

1 April 2002

DOM. PHYTOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
PHYTOPLANKTON ABUNDANCE (units/mL)		
CHLOROPHYLL-A (µg/L)		
DOM. ZOOPLANKTON (% TOTAL)	#1	
	#2	
	#3	
ROTIFERS/LITER		
MICROCRUSTACEA/LITER		
ZOOPLANKTON ABUNDANCE (#/L)		
VASCULAR PLANT ABUNDANCE		
SECCHI DISK TRANSPARENCY (m)		
BOTTOM DISSOLVED OXYGEN (mg/L)		
BACTERIA (E. coli, #/100 ml)	#1	
	#2	
	#3	

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):  
Hypolimnion volume (m<sup>3</sup>):  
Anoxic volume (m<sup>3</sup>):

**CHEMICAL:**Lake: MORRILL POND #1  
Town: CANTERBURY

1 April 2002

DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY ( $\mu$ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 2002**

D.O. S.D. PLANT CHL TOTAL CLASS

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**COMMENTS:**

1. This lake was visited in the spring of 2002 to see if it was suitable for sampling. It was determined to be private and was removed from our list of lakes to sample.
2. The topographic map shows what appears to be two waterbodies attached to each other. The site visit revealed that the lower waterbody was actually a meadow that was flooded by beaver activity. The property owners are controlling the height of the beaver dam because of flooding issues and the fact that their driveway is adjacent to the dam. The upper waterbody is the actual Morrill Pond #1 but has an area of only 5 acres and is not a great pond. The pond is not available to the public for use.